

B. REMARKS

Further to the original application filed November 30, 2002, for the Adaptive Data Manager (ADM) an Information Disclosure Statement (IDS) is filed herewith. This preliminary amendment is submitted in order to more clearly define the invention prior to examination.

In claim 1, line 1, “data” is amended to --a back-end information storage infrastructure and a flexible development environment for data storage-- to make it clear how the data is managed. This is supported by the Specification in page 3, lines 3-4 and page 5, lines 24-25.

In claim 1, line 2, --including a relational database-- is added as clarification, supported by the Specification, page 4, line 10.

In claim 1, line 5, the following has been amended to clarify the organization of the data: “and organizing” is removed, “as” is removed, --to create a-- is added and --model that encloses definitions of meta data elements and relationships among the elements using trees and graphs-- is added. This is supported by the Specification, page 3, lines 6-7.

In claim 1, line 7, --the-- is added for clarification of reference to instance data in claim 1, line 6.

In claim 1, line 9, “a report” is removed and replaced by –physical views-- to more clearly describe the reporting method, as supported in the Specification, page 3, lines 22-26 and page 8, lines 23-28.

In claim 2, line 1, “wherein” is replaced with --further comprising optimizing-- and “is organized in” is replaced with --model by optimally structuring the--, and –in the relational database— are added to more clearly identify the model and database structure used, as supported in the Specification, page 2, lines 13-15 and page 4, lines 11 – 13.

In claim 3, line 1, --relationships among the data elements-- is added and --the relationships between-- is added to make the language more clear, supported by the Specification, page 5, lines 28 – 31, page 6, lines 9 – 11, and page 15, lines 4-5.

New claim 4 is supported by the Specification, page 14, line 31 and page 15, lines 1-2, and page 15, lines 15-17.

New claim 5 is supported by the Specification, page 16, lines 5-7.

New claim 6 is supported by the Specification, page 2, line 25, page 9, lines 13-19, page 15, lines 26-27, and page 68, lines 21-24.

New claim 7 is supported by the Specification, page 6, lines 14 – 18 and lines 23 – 27, page 73, lines 10-13, page 74, line 25, page 75 lines 4-17, and page 81 lines 20-23.

New claim 8 is supported by the Specification, page 8, lines 26 – 28 and page 64, lines 25-28.

In summary, consideration and allowance of the amended claims is respectfully requested.

If the examiner believes that a telephone interview would advance the prosecution of this application, the undersigned would welcome the same.

C. VERSION WITH MARKINGS TO SHOW CHANGES MADE IN THE CLAIMS:

Please amend the claims as follows:

1. (amended) A method for managing [data] a back-end information storage infrastructure and a flexible development environment for data storage using a computer system, comprising:

managing system resources including a relational database;

authenticating and selectively providing access to users through a directory describing predetermined user rights;

modeling [and organizing] processes [as] to create a meta data model that encloses definitions of meta data elements and relationships among the elements using trees and graphs;

running the processes and generating instance data;

storing the instance data following the meta data model while providing management of multi-user access and concurrency; and

transforming the instance data into [a report] physical views.

2. (amended) A method in accordance with claim 1, [wherein] further comprising optimizing the meta data [is organized in] model by optimally structuring the trees and graphs in the relational database.

3. (amended) A method in accordance with claim 1, wherein the relationships among the data elements are characteristic of the relationships between living organisms.

Please add the following claims:

4. A method in accordance with claim 1, further comprising expanding the meta data model, as meta data expands, without effect on current applications.

5. A method in accordance with claim 2, wherein a plurality of concurrent meta data model trees with corresponding separate instance data trees are used in the same database.
6. A method in accordance with claim 1, further comprising auditing and tracking database changes with user and date information.
7. A method in accordance with claim 1, further comprising providing for import and export of both meta data model and instance data using extensible mark-up language.
8. A method in accordance with claim 1, wherein the database is an Oracle database and the transforming of instance data into a view comprises:
 - defining of the view by the user;
 - processing the view using traditional relational Oracle tables; and
 - allowing access of the view with any SQL enabled tool.

Respectfully submitted,

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